

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/11179

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : Please See Extra Sheet.

US CL : Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/133.1, 150.1, 236.1, 241.1; 435/70.21, 71.3, 328, 388.1, 388.4

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	WO 98/20903 A1 (TRUSTEES OF TUFTS COLLEGE) 22 May 1998, entire document.	1-33
Y	US 5,530,101 A (QUEEN et al) 25 June 1996, col. 10, line 55 to col. 68, line 27.	1-33
Y	SCHMITT, C.K. Two copies of Shiga-like toxin II-related genes common in enterohemorrhagic Escherichia coli strains are responsible for the antigenic heterogeneity of the O157:H- strain E32511. Infection and Immunity. March 1991. Vol 59, No. 3. entire document.	1-33

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
B earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 08 JULY 1999	Date of mailing of the international search report 19 OCT 1999
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PCT/US99/11179

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DOWNES, F.P. Affinity purification and characterization of Shiga-like toxin II and production of toxin-specific monoclonal antibodies. Infection and Immunity. August 1988. Vol 56, No. 8. entire document.	1-33
Y	PERERA, L.P. Isolation and characterization of monoclonal antibodies to Shiga-like toxin II of enterohemorrhagic Escherichia coli and use of the monoclonal antibodies in a colony enzyme-linked immunosorbent assay. Journal of Clinical Microbiology. October 1988. Vol 26, No. 10. entire document.	1-33
Y	HII, J.H. Development of verotoxin 2- and verotoxin 2 variant (VT2v)-specific oligonucleotide probes on the basis of the nucleotide sequence of the B cistron of VT2v from Escherichia coli E32511 and B2F1. Journal of Clinical Microbiology. December 1991. Vol 29. No. 12. entire document.	1-33

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A. CLASSIFICATION OF SUBJECT MATTER:
IPC (6):

A61K 39/02, 39/40, 39/108, 39/395; C12N 5/00, 5/02, 5/06; C12P 21/04

A. CLASSIFICATION OF SUBJECT MATTER:
US CL :

424/133.1, 150.1, 236.1, 241.1; 435/70.21, 71.3, 328, 388.1, 388.4

B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

APS, BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH
search terms: verotoxin, antibody, chimeric, humanized, monoclonal, mouse, murine, VT2, VT2V, VTEC, HUS,
hemolytic uremic syndrome, shiga like toxin, SLT